

# LOW RANGE TURBIDITY SENSOR

Controllers

Sensors

Analysers

Samplers

Flow

Level

Pressure

Web remote control

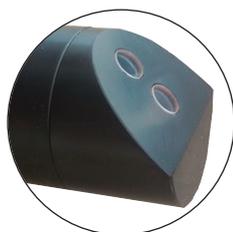
Accessories



## General features S461 LT

Turbidity refers to the scattered component of a light beam which is diverted away from its natural course by optically denser particles in the medium (e.g. solid matter particles).

The measurement is performed by using a 90° scattered light method compliant with ISO 7027 / EN 27027. The measuring method is based on the Tyndall effect. The turbidity of the medium is determined by the amount of scattered light.



## Applications

Drinking water, process industrial water, low turbidity waters, immersion or by-pass installation

## Standard version

PVC Body and Modbus RTU RS485 interface

## On request

SS316 body;  
4...20 mA outputs

## Technical specifications

Measuring range	0...10 NTU / 0...100 NTU
Measuring method	90° Scattered light
Resolution	0,01 NTU for 0...10 NTU range 0,1 NTU for 0...100 NTU range
Accuracy	±1% for 0...10 NTU range ±5% for 0...100 NTU range
Ripeatability	±0.05 NTU for 0...100 NTU range ±0.5 NTU for 0...100 NTU range
Response time	$T_{90} < 60s$
Operating temperature	0...50 °C (0...75 °C with SS316 optional body)
Maximum pressure	4 bar
Body material	Black PVC (on request only SS316)
O-ring	Viton® and Silicon
Optics	Special Glass with oleophobic treatment
Mechanical protection	IP68 Sensor + cable
Power supply	12...24Vdc
Power consumption	max. 3W
Cable	10 mt integral with the sensor
Calibration	1-point and/or 2-point for scale
Signal interface	Modbus RTU Standard Protocol RS485



S461-LT  
with Flow cell